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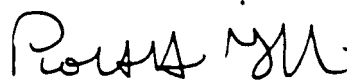
**Engineering and Design**  
**NAVSTAR GLOBAL POSITIONING SYSTEM SURVEYING**

**1. Purpose.** This manual provides technical specifications and procedural guidance for surveying with the NAVSTAR Global Positioning System (GPS). It is intended for use by engineering, topographic, or construction surveyors performing surveys for civil works and military construction projects. Procedural and quality control standards are defined to establish Corps-wide uniformity in GPS survey performance and GPS Architect-Engineer (A-E) contracts.

**2. Applicability.** This manual applies to HQUSACE elements, major subordinate commands (MSC), districts, laboratories, and field operating activities (FOA) having responsibility for the planning, engineering and design, operations, maintenance, construction, and related real estate and regulatory functions of civil works and military construction projects. It applies to GPS survey performance by both hired labor forces and contracted survey forces. It is also applicable to surveys performed or procured by local interest groups under various cooperative or cost-sharing agreements.

**3. General.** The NAVSTAR GPS has significantly modified many traditional survey practices found in all aspects of surveying and mapping work. The NAVSTAR GPS, operating in a differential or relative survey mode, is capable of providing far more accurate positions of either static monuments or moving platforms at costs far less than those for conventional survey methods. The goal of this manual is to ensure that GPS survey procedures are efficiently and uniformly practiced to attain more accurate and cost-effective surveying and mapping execution throughout the Corps of Engineers.

FOR THE COMMANDER:



ROBERT H. GRIFFIN  
Colonel, Corps of Engineers  
Chief of Staff